

FORM PTO-1449

## INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
2107.1050002/TUM/RLPAPPLICATION NO.  
10/699,867FIRST NAMED INVENTOR  
Sicilia et al.FILING DATE  
Nov. 4, 2003ART UNIT  
1722

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |     | DOCUMENT<br>NUMBER | DATE        | NAME             | CLASS | SUB-<br>CLASS | FILING DATE |
|---------------------|-----|--------------------|-------------|------------------|-------|---------------|-------------|
| TWH                 | AA1 | 2865050            | Jun 6 1955  | Strauss          | —     | —             |             |
| TWH                 | AB1 | 3488810            | Jan 13 1970 | Gellert          | —     | —             |             |
|                     | AC1 | 3716318            | Feb 13 1973 | Erik et al.      | —     | —             |             |
|                     | AD1 | 3741704            | Jun 26 1973 | Beasley          | —     | —             |             |
|                     | AE1 | 3952927            | Apr 27 1976 | Shaumburg et al. | —     | —             |             |
|                     | AF1 | 4004871            | Jan 25 1977 | Hardy            | —     | —             |             |
|                     | AG1 | 4010903            | Mar 8 1977  | Sakuri et al.    | —     | —             |             |
|                     | AH1 | 4013393            | Mar 22 1977 | Gellert          | —     | —             |             |
|                     | AI1 | 4043740            | Aug 23 1977 | Gellert          | —     | —             |             |
|                     | AJ1 | 4173448            | Nov 6 1979  | Rees et al.      | —     | —             |             |
|                     | AK1 | 4306852            | Dec 22 1981 | Mateev et al.    | —     | —             |             |
| TWH                 | AL1 | 4368028            | Jan 11 1983 | Grish et al.     | —     | —             |             |

## FOREIGN PATENT DOCUMENTS

| EXAMINER<br>INITIAL |     | DOCUMENT<br>NUMBER | DATE        | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |
|---------------------|-----|--------------------|-------------|---------|-------|---------------|-------------|
| TWH                 | AM1 | DE 3245571 A1      | Jun 20 1984 | Germany |       |               | X Yes<br>No |
|                     | AN1 | DE 29602484 U1     | May 9 1996  | Germany |       |               | X Yes<br>No |
|                     | AO1 | DE 19608676 C1     | Jan 1 1997  | Germany |       |               | X Yes<br>No |
|                     | AP1 | EP 0638407 A1      | Feb 15 1995 | Europe  |       |               | X Yes<br>No |
| TWH                 | AR1 | EP 0750975 A1      | Jan 2 1997  | Europe  |       |               | X Yes<br>No |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |   |   |
|-----|----|---|---|
|     | AS | 1 |   |
| TWH | AT | 1 | PCT Search Report for WO 03/70446 (Application No. PCT/CA03/00244), dated May 16, 2003.             |
| TWH | AU | 1 | Images and information from "Gunther Hot Runner Technology" taken from Gunther website August 2003. |

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Tim WeiterbrinkDATE CONSIDERED  
10-18-05

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|   |  |                               |
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| FORM PTO-1449<br>INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO.<br>2107.1050002/TUM/RLP | APPLICATION NO.<br>10/699,867 |
|   | FIRST NAMED INVENTOR<br>Sicilia et al.   |                               |
|   | FILING DATE<br>Nov. 4, 2003              | ART UNIT<br>1722              |

## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE         | NAME           | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|--------------|----------------|-------|-----------|-------------|
| TWH              | AA2 | 4412807         | Nov 1 1983   | York           | —     | —         |             |
|                  | AB2 | 4652230         | Mar 24 1987  | Osuna-Diaz     | —     | —         |             |
|                  | AC2 | 4768283         | Sep 6 1988   | Gellert        | —     | —         |             |
|                  | AD2 | 4768945         | Sept 6 1988  | Schmidt et al. | —     | —         |             |
|                  | AE2 | 4771164         | Sept 13 1988 | Gellert        | —     | —         |             |
|                  | AEF | 4781572         | Nov 1 1988   | Boring         | —     | —         |             |
|                  | AG2 | 4832593         | May 23 1989  | Brown          | —     | —         |             |
|                  | AH2 | 4875848         | Oct 24 1989  | Gellert        | —     | —         |             |
|                  | AI2 | 4911636         | Mar 27 1990  | Gellert        | —     | —         |             |
|                  | AJ2 | 4925384         | May 15 1990  | Manner         | —     | —         |             |
|                  | AK2 | 4945630         | Aug 7 1990   | Gellert        | —     | —         |             |
|                  | AL2 | 4981431         | Jan 1 1991   | Schmidt        | —     | —         |             |
| TWH              | AM2 | 5015170         | May 14 1991  | Gellert        | —     | —         |             |

## FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE        | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-----------------|-------------|---------|-------|-----------|-------------|
| TWH              | AN2 | EP 0873841 A2   | Oct 28 1998 | Europe  | —     | —         | Yes<br>No   |
|                  | AO2 | EP 0962296 A2   | Dec 8 1999  | Europe  | —     | —         | Yes<br>No   |
|                  | AP2 | EP 1188537 A2   | Mar 20 2002 | Europe  | —     | —         | Yes<br>No   |
|                  | AR2 | FR 2537497      | Jun 15 1994 | France  | —     | —         | Yes<br>No   |
| TWH              | AS2 | JP 5-177664     | Jul 20 1993 | Japan   | —     | —         | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |   |  |
|-----|----|---|--|
| TWH | AT | 2 | Press Release entitled "Mold-Masters Introduces The New Accu-Gate Virtually Eliminating Gate Wear" (Dec. 12, 2002) |
| TWH | AU | 2 | Images and Information from website of Mold Hotrunner Solutions (date unknown)                                     |
| TWH | AV | 2 | H.P. Manner, "NadelverschluBdusen fur kurze Zykluszeit," <u>Kunststoffe</u> 85(2):166-168 (1995).                  |

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| EXAMINER<br><i>Tim Hirsch</i> | DATE CONSIDERED<br><i>10-18-05</i> |
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|---------------------|-----|--------------------|-------------|------------------|-------|---------------|-------------|
| <i>TWH</i>          | AA3 | 5028227            | Jul 2 1991  | Gellert et al.   | —     | —             |             |
|                     | AB3 | 5053271            | Oct 1 1991  | Mori et al.      | —     | —             |             |
|                     | AC3 | 5208052            | May 4 1993  | Schmidt et al.   | —     | —             |             |
|                     | AD3 | 5254305            | Oct 19 1993 | Fernandez et al. | —     | —             |             |
|                     | AE3 | 5299928            | Apr 5 1994  | Gellert          | —     | —             |             |
|                     | AF3 | 5334008            | Aug 2 1994  | Gellert          | —     | —             |             |
|                     | AG3 | 5421716            | Jun 6 1995  | Gellert          | —     | —             |             |
|                     | AH3 | 5443381            | Aug 22 1995 | Gellert          | —     | —             |             |
|                     | AI3 | 5492467            | Feb 20 1996 | Hume et al.      | —     | —             |             |
|                     | AJ3 | 5501594            | Mar 26 1996 | Glozer et al.    | —     | —             |             |
|                     | AK3 | 5505613            | Apr 9 1996  | Krummenacher     | —     | —             |             |
|                     | AL3 | 5545028            | Aug 13 1996 | Hume et al.      | —     | —             |             |
| <i>TWH</i>          | AM3 | 5554395            | Sep 10 1996 | Hume et al.      | —     | —             |             |

**FOREIGN PATENT DOCUMENTS**

| EXAMINER<br>INITIAL |     | DOCUMENT<br>NUMBER | DATE        | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION |
|---------------------|-----|--------------------|-------------|---------|-------|---------------|-------------|
| <i>TWH</i>          | AN3 | JP 5-261770        | Oct 12 1993 | Japan   | —     | —             | X Yes<br>No |
|                     | AO3 | JP 5-309695        | Nov 22 1993 | Japan   | —     | —             | X Yes<br>No |
|                     | AP3 | JP 7-148786        | Jun 13 1995 | Japan   | —     | —             | X Yes<br>No |
|                     | AR3 | JP 8-90598         | Apr 9 1996  | Japan   | —     | —             | X Yes<br>No |
| <i>TWH</i>          | AS3 | JP 10-264222       | Oct 6 1998  | Japan   | —     | —             | X Yes<br>No |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

|            |    |   |  |
|------------|----|---|--|
| <i>TWH</i> | AT | 3 | Ewikon Product Catalog entitled "Außenbeheizte Heißkanalduse, 230 V, für schnelle Farbwechsel," 3 pages, dated October 2000. |
| <i>TWH</i> | AU | 3 | Kona Corporation Catalog entitled "Kona Bushing for Sprueless Molding," pages 1-24, dated June 25, 2001.                     |
|            | AV | 3 |  |

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*Tim Heubrich*

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*10-18-05*

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| U.S. PATENT DOCUMENTS |     |                 |             |                 |       |           |             |
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| EXAMINER INITIAL      |     | DOCUMENT NUMBER | DATE        | NAME            | CLASS | SUB-CLASS | FILING DATE |
| TWH                   | AA4 | 5652003         | Jul 29 1997 | Gellert         | —     | —         |             |
|                       | AB4 | 5658604         | Aug 19 1997 | Gellert et al.  | —     | —         |             |
|                       | AC4 | 5695793         | Dec 9 1997  | Bauer           | —     | —         |             |
|                       | AD4 | 5700499         | Dec 23 1997 | Bauer           | —     | —         |             |
|                       | AE4 | 5804228         | Sep 8 1998  | Kofsmann et al. | —     | —         |             |
|                       | AF4 | 5811140         | Sep 22 1998 | Manner          | —     | —         |             |
|                       | AG4 | 5834041         | Nov 10 1998 | Sekine et al.   | —     | —         |             |
|                       | AH4 | 5849343         | Dec 15 1998 | Gellert et al.  | —     | —         |             |
| TWH                   | AI4 | 5879727         | Mar 9 1999  | Puri            | —     | —         |             |

| FOREIGN PATENT DOCUMENTS |     |                 |             |         |       |           |             |
|--------------------------|-----|-----------------|-------------|---------|-------|-----------|-------------|
| EXAMINER INITIAL         |     | DOCUMENT NUMBER | DATE        | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
| TWH                      | AJ4 | JP 10-296798    | Nov 10 1998 | Japan   | —     | —         | Yes<br>X No |
|                          | AK4 | JP 11-254488    | Sep 21 1999 | Japan   | —     | —         | Yes<br>X No |
|                          | AL4 | JP 2002-307492  | Oct 23 2002 | Japan   | —     | —         | Yes<br>X No |
|                          | AM4 | JP 2003-11173   | Jan 15 2003 | Japan   | —     | —         | Yes<br>X No |
| TWH                      | AN4 | JP 2003-11174   | Jan 15 2003 | Japan   | —     | —         | Yes<br>X No |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|  | AO | 4 |  |
|  | AP | 4 |  |
|  | AQ | 4 |  |

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| EXAMINER <i>Tim Neuberk</i> | DATE CONSIDERED <i>10-18-05</i> |
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|---------------------|-----|--------------------|-------------|---------------------|-------|---------------|-------------|
| <i>TWH</i>          | AA5 | 5895669            | Apr 20 1999 | Seres, Jr. et al.   | —     | —             |             |
|                     | AB5 | 5941637            | Aug 24 1999 | Maurer              | —     | —             |             |
|                     | AC5 | 6003182            | Dec 21 1999 | Song                | —     | —             |             |
|                     | AD5 | 6009616            | Jan 4 2000  | Gellert             | —     | —             |             |
|                     | AE5 | 6017209            | Jan 25 2000 | Gellert et al.      | —     | —             |             |
|                     | AF5 | 6030202            | Feb 29 2000 | Gellert et al.      | —     | —             |             |
|                     | AG5 | 6050806            | Apr 18 2000 | Ko                  | —     | —             |             |
|                     | AH5 | 6089468            | Jul 18 2000 | Bouti               | —     | —             |             |
|                     | AI5 | 6164954            | Dec 26 2000 | Mortazavi et al.    | —     | —             |             |
|                     | AJ5 | 6227461            | May 8 2001  | Schroeder et al.    | —     | —             |             |
|                     | AK5 | 6245278            | Jun 12 2001 | Lausenhammer et al. | —     | —             |             |
| <i>TWH</i>          | AL5 | 6264460            | Jul 24 2001 | Wright et al.       | —     | —             |             |

**FOREIGN PATENT DOCUMENTS**

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|---------------------|-----|--------------------|-------------|---------|-------|---------------|-------------|
| <i>TWH</i>          | AM5 | JP 2003-11176      | Jan 15 2003 | Japan   | —     | —             | Yes<br>X No |
|                     | AN5 | WO 84/00922        | Mar 15 1984 | PCT     | —     | —             | Yes<br>X No |
|                     | AO5 | WO 01/78961 A1     | Oct 25 2001 | PCT     | —     | —             | Yes<br>No   |
|                     | AP5 | WO 03/004243 A1    | Jan 16 2003 | PCT     | —     | —             | Yes<br>No   |
|                     | AR5 | WO 03/070446 A1    | Aug 28 2003 | PCT     | —     | —             | Yes<br>No   |
| <i>TWH</i>          | AS5 | WO 2004/012923 A2  | Feb 12 2004 | PCT     | —     | —             | Yes<br>No   |

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

|  |    |          |  |
|--|----|----------|--|
|  | AT | <u>5</u> |  |
|  | AU | <u>5</u> |  |
|  | AV | <u>5</u> |  |

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| EXAMINER INITIAL      |     | DOCUMENT NUMBER | DATE        | NAME           | CLASS | SUB-CLASS | FILING DATE |
| TWH                   | AA6 | 6273706         | Aug 14 2001 | Gunther        | —     | —         |             |
|                       | AB6 | 6309208         | Oct 30 2001 | Kazmer et al.  | —     | —         |             |
|                       | AC6 | 6358038         | Mar 19 2002 | Rozenberg      | —     | —         |             |
|                       | AD6 | 6358039         | Mar 19 2002 | Manner et al.  | —     | —         |             |
|                       | AE6 | 6419116         | Jul 16 2002 | Eigler et al.  | —     | —         |             |
|                       | AF6 | 2003/0008034    | Jan 9 2003  | Niewels        | —     | —         |             |
|                       | AG6 | 2003/0170340    | Sep 11 2003 | Sicilia et al. | —     | —         |             |
| TWH                   | AH6 | 2004/0071817    | Apr 15 2004 | Fischer et al. | —     | —         |             |
|                       | AI6 |                 |             |                |       |           |             |
|                       | AJ6 |                 |             |                |       |           |             |
|                       | AK6 |                 |             |                |       |           |             |
|                       | AL6 |                 |             |                |       |           |             |
|                       | AM6 |                 |             |                |       |           |             |

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| EXAMINER INITIAL         |     | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AN6 |                 |      |         |       |           | Yes<br>No   |
|                          | AO6 |                 |      |         |       |           | Yes<br>No   |
|                          | AP6 |                 |      |         |       |           | Yes<br>No   |
|                          | AR6 |                 |      |         |       |           | Yes<br>No   |
|                          | AS6 |                 |      |         |       |           | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|--|----|---|--|
|  | AT | 6 |  |
|  | AU | 6 |  |
|  | AV | 6 |  |

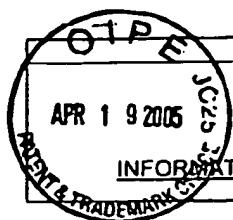
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*John H. Harkins*

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Denis BabinFILING DATE  
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## U.S. PATENT DOCUMENTS

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|---------------------|-----|--------------------|---------------|----------|-------|---------------|-------------|
| TWH                 | AA1 | 5,845,853          | Dec. 8, 1998  | Friedman | —     | —             |             |
| TWH                 | AB1 | 2004/0058031       | Mar. 25, 2004 | Niewels  | —     | —             |             |
| TWH                 | AC1 | 2004/0208949       | Oct. 21, 2004 | Niewels  | —     | —             |             |
|                     | AD1 |                    |               |          |       |               |             |
|                     | AE1 |                    |               |          |       |               |             |
|                     | AF1 |                    |               |          |       |               |             |
|                     | AG1 |                    |               |          |       |               |             |
|                     | AH1 |                    |               |          |       |               |             |
|                     | AI1 |                    |               |          |       |               |             |
|                     | AJ1 |                    |               |          |       |               |             |
|                     | AK1 |                    |               |          |       |               |             |
|                     | AL1 |                    |               |          |       |               |             |

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|---------------------|-----|--------------------|---------------|---------|-------|---------------|-------------|
| TWH                 | BA2 | CA 2,473,920       | Aug. 28, 2003 | Canada  | —     | —             | Yes<br>No   |
|                     | BB2 |                    |               |         |       |               | Yes<br>No   |
|                     | BC2 |                    |               |         |       |               | Yes<br>No   |
|                     | BD2 |                    |               |         |       |               | Yes<br>No   |

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

|     |    |   |  |
|-----|----|---|--|
| TWH | CA | 2 | PCT International Search Report for International Application No. PCT/CA2004/001920 mailed March 14, 2005. |
|     | CB | 2 |  |
|     | CC | 2 |  |

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*Tim Stubbins*

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